



Claim History

I claim:

1. (Previously amended) An immunophilin, comprising a protein with the following properties:

- (i) a protein of 8.4 kDa mass;
- (ii) isolated from the soluble cytoplasm of lymphoid tissues;
- (iii) the N-terminal first 23 amino acid sequence is:

Met Gln Ile Phe Val Lys Thr Leu Thr Gly	10	Seq. ID No. 1
Lys Thr Ile Thr Leu Glu Val Glu Pro Ser	20	
Asp Thr Ile	23	

and,

(iv) capable of specifically binding FK-506, rapamycin, or pharmacologically active metabolites thereof or pharmacologically active derivatives of rapamycin, but not cyclosporins.

2. (Original) An immunophilin according to claim 1, wherein said protein has a retention time on HPLC the same as authentic ubiquitin.

3. (Original) An immunophilin according to claim 1, wherein said protein migrates on SDS-PAGE electrophoresis plates identically to authentic ubiquitin.

4. (Previously amended) An immunophilin according to claim 1, wherein said protein exhibits a binding constant (K_d) of about 0.8 nM for FK-506 and 0.08 nM for rapamycin.

5. (Original) An immunophilin according to claim 1, wherein said protein has a Hill plot value of about unity.

6. (Original) An immunophilin according to claim 1, wherein said protein, when complexed to FK-506, inhibits calcineurin phosphatase activity.

7. Canceled.

8. Canceled

9. (Canceled)